

Message

From: Burdett, Cheryl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E8F84378969242DBA5EB260C1CC89FB8-CBURDETT]
Sent: 9/26/2018 5:50:05 PM
To: Wilson, Jennifer [wilson.jenniferA@epa.gov]
Subject: FW: Aquifers beneath Central Sands Dairy
Attachments: Wisconsin Aquifers.jpg; Cambrian-Ordovician 3 Aquifer System Vertical Profile.jpg; St Peter-Prairie du Chien-Jordan aquifer groundwater flow.jpg; Ironton-Galesville aquifer groundwater flow.jpg; Mount Simon Aquifer and Wisconsin Dome Effect.jpg; Area between aquifer boundary and Petenwell Lake.pdf

Hi Jennifer:

I am sending you attachments that show the Cambrian-Ordovician Aquifer, I don't think that I stated in my reports or memos that CSD was the only large dairy in this aquifer. I have not verified this to be true.

Sincerely,

Cheryl Burdett

From: Burdett, Cheryl
Sent: Thursday, July 28, 2016 11:16 AM
To: Grubb, Christopher <Grubb.Christopher@epa.gov>
Subject: FW: Aquifers beneath Central Sands Dairy

Ex. 5 Deliberative Process (DP)

Sincerely,

Cheryl Burdett

From: Anderson, Milo
Sent: Friday, July 22, 2016 12:12 PM
To: Burdett, Cheryl <burdett.cheryl@epa.gov>
Cc: Tschampa, Andrew <tschampa.andrew@epa.gov>
Subject: Aquifers beneath Central Sands Dairy

Hi Cheryl,

Although after your call yesterday I determined and received confirmation from GWDWB that there are no designated sole source aquifers anywhere in Wisconsin, I wanted to be sure to point out that there are however aquifers everywhere throughout the state.

Ex. 5 Deliberative Process (DP)

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- The first attachment from the Ground Water Atlas of the US shows the 3 primary aquifer systems in Wisconsin. Central Sands Dairy would fall on the top of the letter 'O' in 'WISCONSIN' on the map, just inside the northern boundary of the Cambrian-Ordovician aquifer system (the green color with the number 30).
- The second attachment, also from the Ground Water Atlas of the US, shows that the Cambrian-Ordovician aquifer system actually has 3 different aquifers at various depths separated by confining layers.
- The next 3 attachments, one for each of the 3 different aquifers, all demonstrate that regardless of the aquifer, groundwater flow is in general in a southern direction away from the northern border of the Cambrian-Ordovician aquifer system near Central Sands Dairy. I could go into more detail per aquifer, but in the interest in keeping this email to the point, let's leave it where we can discuss this further as necessary.

Ex. 5 Deliberative Process (DP)

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Finally, the first five attachments are from these publications:

http://www.engr.uconn.edu/environ/envphys/pdf/envMeasurements/USGS_Groundwater%20Atlas.pdf

http://pubs.usgs.gov/ha/ha730/ch_1/J-Cambrian.html

Milo

From: Spaulding, William
Sent: Thursday, July 21, 2016 3:32 PM
To: Anderson, Milo <anderson.milo@epa.gov>
Subject: RE: Are there any sole source aquifers in Wisconsin?

You're correct – no SSAs in Wisconsin

From: Anderson, Milo
Sent: Thursday, July 21, 2016 3:11 PM
To: Spaulding, William <spaulding.william@epa.gov>
Subject: Are there any sole source aquifers in Wisconsin?

Hi Bill,

Looking at the attached map I did for you a year ago, it looks like the answer is no, no sole source aquifers in Wisconsin. But I wanted to check in with you to make sure that is your understanding. It has to do with a water enforcement case involving a CAFO in Wisconsin.

Milo